

REMARKS

Reconsideration and allowance of this application are respectfully requested in light of the above amendments and the following remarks.

Applicants acknowledge with appreciation the indication in the Office Action that claims 7 and 8 are allowed and claims 2 and 4-6 are allowable.

Claims 1 and 3 have been amended. Support for the amendments is provided at least in Figs. 7 and 8 and paragraph 16 of the specification.

Claim 1 was rejected, under 35 USC §103(a), as being unpatentable over Dolgonos et al. (US 7,002,934) in view of Uskali et al (US 6,735, 423) and Belotserkovsky et al. (US 6,628,735).

Claim 3 was rejected, under 35 USC §103(a), as being unpatentable over Do et al. (US 6,798,738) in view of Uskali, Belotserkovsky, and Hyakudai et al. (US 6,720,824). To the extent the rejections may be deemed applicable to the amended claims, the Applicants respectfully traverse.

Claim 1 now defines an OFDM signal collision position detection apparatus that predicts the reception power of a data signal based on a measured reception power of a pilot symbol. With the claimed subject matter, a comparison of the actual reception power with the predicted reception power may provide an indication of whether a received data symbol is affected by interference so that corrective measures may be taken to improve the reception of subsequently received data symbols (see specification page 5, second paragraph).

The Office Action acknowledges that Dolgonos does not disclose predicting the reception power of a data signal based on a measured reception power of a known signal (see Office Action,

sentence bridging pages 3 and 4). To overcome this deficiency, the Office Action cites Uskali's disclosure in column 5, line 65, through column 6, line 20.

However, in the cited text, Uskali discloses repeatedly estimating a reception signal-to-noise ratio (SNR) and applying different gains to two automatic gain circuits (AGCs) in an attempt to iteratively improve the reception SNR with the gain changes applied to the AGCs (see Uskali col. 6, lines 1-12). Uskali's disclosure is not similar to the claimed feature of predicting the reception power of a data signal based on a measured reception power of a pilot symbol. Belotserkovsky is not cited for supplementing the teachings of Dolgonos and Uskali in this regard.

Accordingly, the Applicants respectfully submit that Dolgonos, Uskali and Belotserkovsky, considered individually or in combination, do not render obvious the subject matter now defined by claim 1. Therefore, allowance of claim 1 and dependent claim 2 is warranted.

Independent claim 3 now recites the above-mentioned feature distinguishing claim 1 from Dolgonos, Uskali, and Belotserkovsky. The Office Action acknowledges that Do does not disclose this feature (see Office Action page 6, third paragraph) and does not cite Belotserkovsky or Hyakudai for supplementing the teachings of Do in this regard (see pages 8 and 9). As is the case with claim 1, the Office Action cites Uskali for disclosing the claimed feature. For the reasons discussed in connection with claim 1, though, Uskali does not disclose the claimed feature of predicting the reception power of a data signal based on a measured reception power of a pilot symbol.

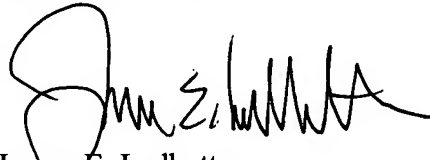
Accordingly, the Applicants respectfully submit that Do, Uskali, Belotserkovsky and Hyakudai, considered individually or in combination, do not render obvious the subject matter

now defined by claim 3. Therefore, allowance of claim 3 and all claims dependent therefrom is warranted.

In view of the above, it is submitted that this application is in condition for allowance and a notice to that effect is respectfully solicited.

If any issues remain which may best be resolved through a telephone communication, the Examiner is requested to telephone the undersigned at the local Washington, D.C. telephone number listed below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'James E. Ledbetter', with a large, stylized initial 'J'.

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JEL/DWW/att

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